



Device for measuring the internal diameter of a pipe with inspection camera

BACKGROUND OF THE INVENTION:

Field of the invention:

More particularly, the present invention relates to a device being fixed to an inspection camera for measuring the internal diameter of a pipe.

Description of the related art:

A search of prior art records has unveiled the following patents:

1. CA 2,046,492 registered in 1991 to Barski;
2. CA 1,134,872 issued in 1982 to Passamoni;
3. CA 2,218,436 registered in 1942 to Wiercienski;
4. CA 512,624 issued in 1955 to Bissell;
5. CA 438,857 issued in 1946 to Levin;
6. CA 2,074,640 registered in 1992 to Rafilipomanana; and
7. CA 2,278,046 registered in 1997 to Prakken.

As can be seen the patents mentioned above are probably the most relevant.

Summary of the invention:

It has been discovered that the present invention described herein allows to measure the internal diameter of a pipe with an inspection camera.

Brief description of the several views of the drawing(s):

Figure 1 is a perspective view of a device being fixed to an inspection camera for measuring the internal diameter of a pipe -as shown in phantom lines-;

Figure 2 is a perspective view of the device;

Figure 3 is a front view thereof; and

Figure 4 is an exploded view thereof.

Detailed description of the invention:

Referring to the drawings 1 to 4, a device (A) being fixed to an inspection camera for measuring the internal diameter of a pipe, which comprises a tape (1) mounted into a flat elongated body (4) having holes (9) enabling to a string (3) to be pulled out of the elongated body (4).

The string (3) pulling the tape (1) out of the flat elongated body (4) for measuring the internal diameter of the pipe with the inspection camera, and thereafter an elastic band (2) bringing the tape (1) into the elongated body (4).

The flat elongated body (4) has at one end a tongue having hole (10) in which is connected the other end of the elastic band (2).

An extension body (8) is connected to one end of the elongated body (4) (see fig. 1).

A multitude of pieces (5) are mounted to the flat elongated body (4) for fastening the inspection camera -as shown in phantom lines-.

A metal part (7) is disposed between the elongated body (4) and a wire of the inspection camera for holding the device (A) in bottom of the pipe.

The tape (1) having hole (11) at one end for using a means (12) connecting the elastic band (2) and string (3) to the tape (1). A circular member (6) is connected at the other end of the tape (1) for keeping the device at a right angle in bottom of the pipe when reading the diameter of the pipe with the inspection camera, and for blocking the tape (1) at the input of the elongated body (4) when the elastic band (2) bringing the tape (1) into the elongated body (4).

Although only a single embodiment of the present invention has been described and illustrated, the present invention is not limited to the features of this embodiment, but includes all variations and modifications within the scope of claims attached hereto without departing from the spirit of the invention.